

HHSEGS (11-AFC-02)
TESTIMONY OF C.R. MACDONALD

SOILS & SURFACE WATERS
EXHIBIT 718

PHOTO GALLERY

SECTION I. SURFACE WATERS & FLOOD IMPACTS
SECTION II: SOILS

SECTION I: SURFACE WATERS & FLOOD IMPACTS

Surface Waters & Flood Impacts: Photo 1

1970's historical photo of flooding impacts in Charleston View.



Surface Waters & Flood Impacts: Photo 2

1970's historical photo of flooding impacts in Charleston View.



Surface Waters & Flood Impacts: Photo 3

Photo of flood warning sign posted besides the Old Spanish Trail Highway/Tecopa Road directly adjacent from the proposed HHSEGS project site. 5/14/12.



Surface Waters & Flood Impacts: Photo 4

Flooding of Old Spanish Trail Highway/Tecopa Road slightly west of Charleston View and adjacent to western boundary of the proposed HHSEGS site. 7/23/12.
Photo courtesy of Basin & Range Watch.



Surface Waters & Flood Impacts: Photo 5

Flooding on proposed HHSEGS project site looking north from Old Spanish Trail Highway/Tecopa Road . 7/23/12. Photo courtesy of Basin & Range Watch.



Surface Waters & Flood Impacts: Photo 6

Flooding over the Old Spanish Trail Highway/Tecopa Road looking southwest. The most distant residences of Charleston View can be seen in the background. 7/23/12. Photo courtesy of Basin & Range Watch.



Surface Waters & Flood Impacts: Photo 7

Flooding across roadway during July 2012 flood event at Genesis Solar site.
Photo Source: CEC



Surface Waters & Flood Impacts: Photo 8

Rushing flood water during July 2012 flood event at Genesis Solar site.
Photo Source: CEC



Surface Waters & Flood Impacts: Photo 9

Rushing flood water during July 2012 flood event at Genesis Solar site.

Photo Source: CEC



Surface Waters & Flood Impacts: Photo 10

Flood impacts during July 2012 flood event at Genesis Solar site.

Photo Source: CEC



Surface Waters & Flood Impacts: Photo 11
Flood impacts during July 2012 flood event at Genesis Solar site.
Photo Source: CEC



Surface Waters & Flood Impacts: Photo 12
Flood impacts during July 2012 flood event at Genesis Solar site.
Photo Source: CEC



Surface Waters & Flood Impacts: Photo 13

Photo of soil washed over Old Spanish Trail Highway/Tecopa Road due to flood event on 10/11/12 looking northeast about 500 ft. from the California state line. 10/15/12.



Surface Waters & Flood Impacts: Photo 14

Newly carved flood channel looking southwest on Old Spanish Trail Highway/Tecopa Road and source of the soil erosion above about 500 ft. from the California state line.



Surface Waters & Flood Impacts: Photo 15

Newly carved flood channel from 10/11/12 flood event located on the south side of the Old Spanish Trail Highway/Tecopa Road heading west about a mile before Charleston View.



Surface Waters & Flood Impacts: Photo 16

Flood impacts during July 2012 flood event at Genesis Solar site.

Photo Source: CEC



SECTION II: SOILS

Soils: Photo 1

Saturated soil causes van in storage at Charleston View to sink. 4/25/12.



Soils: Photo 2

Saturated soil causes van in storage at Charleston View to sink. 4/25/12.



Soils: Photo 3

Saturated soil cause sinking of equipment during July 2012 flood event at Genesis Solar site.
Photo Source: CEC



Soils: Photo 4

Saturated soil cause sinking of equipment during July 2012 flood event at Genesis Solar site.
Photo Source: CEC



Soils: Photo 5

Saturated soil cause sinking of equipment during July 2012 flood event at Genesis Solar site.
Photo Source: CEC



Soils: Photo 6

Saturated soil cause sinking of equipment during July 2012 flood event at Genesis Solar site.
Photo Source: CEC



Soils: Photo 7

Soil impacts from vehicle travel and remnants of campfire at base camp set up at Orchard Well location to conduct Site Tour. 12/20/11.



Soils: Photo 8

Soil impacts from vehicle travel on the way up to the applicant's weather station. 12/20/11.



Soils: Photo 9

Soil impacts from vehicle travel on the way up to the applicant's weather station. 12/20/11.



Soils: Photo 10

Soil impacts from vehicle travel at applicant's weather station. 12/20/11.



Soils: Photo 11

Soil impacts from vehicle travel near applicant's weather station. 12/20/11.



Soils: Photo 12

Soil impacts from vehicle use on the proposed HHSEGS site. 12/20/11.



Soils: Photo 13

Soil impacts from vehicle use on the proposed HHSEGS site.
Note how soft and powdery the soil becomes once disturbed. 12/20/11.



The following photos represents a close up view of the topography and landscape that comprises the alluvial fans, the “ridge” that sits above the proposed project site and the valley floor as seen in the aerial photo featured on the cover the CEC Preliminary Staff Assessment regarding the proposed Hidden Hills Solar Electric Generating System. All photos taken on April 25, 2012.

Soils: Photo 14

Photo taken on top of the ridge above the proposed HHSEGS project site looking Southeast.



Soils: Photo 15

Photo taken on top of ridge above the proposed HHSEGS project site looking North/Northeast.



Soils: Photo 16

Photo taken on top of ridge above the proposed HHSEGS project site looking North.



Soils: Photo 17

Photo taken on top of ridge above the proposed HHSEGS project site looking North/Northwest.



Soils: Photo 18

Photo taken on top of ridge above the proposed HHSEGS project site looking West.
The dry lake can be seen in the background.



Soils: Photo 19

Photo taken on top of ridge above the proposed HHSEGS project site looking West.



Soils: Photo 20

Photo taken on top of ridge above the proposed HHSEGS project site looking Southwest. The greenery in the background is Charleston View. From this vantage point, Solar Plant II's Power Tower and heliostat field will be located just in front of Charleston View.



Soils: Photo 21

Photo taken on top of ridge above the proposed HHSEG project site looking South.



Soils: Photo 22

Photo taken on top of ridge of terrain above the proposed HHSEGS project site looking Southwest. Shown is a close up of some of the flood channels that sit above the proposed site.



Soils: Photo 23

Photo taken on top of ridge of terrain above the proposed HHSEGS project site looking East.



Soils: Photo 24

Photo taken slightly below the ridge above the proposed HHSEGS project site looking West.
The dry lake would be located behind this ridge and to the right.



Soils: Photo 25

Photo taken of ridge above the proposed HHSEGS project site looking West/Northwest. The dry lake can be seen in the distance. The HHSEGS will sit to the right between these geographical features. Solar Tower I might be visible from here.

